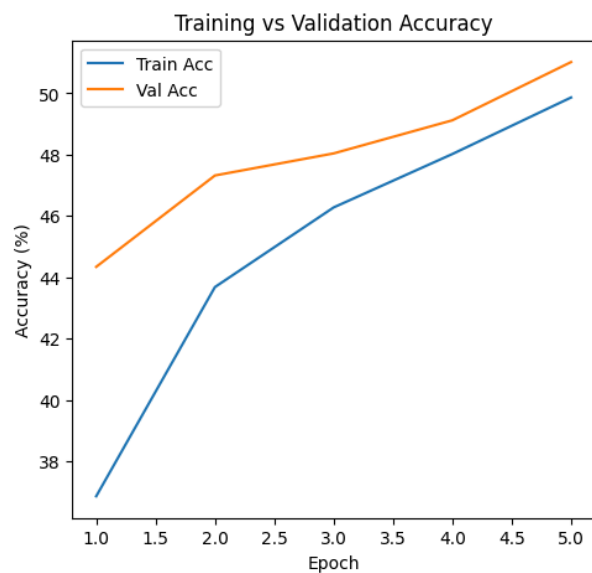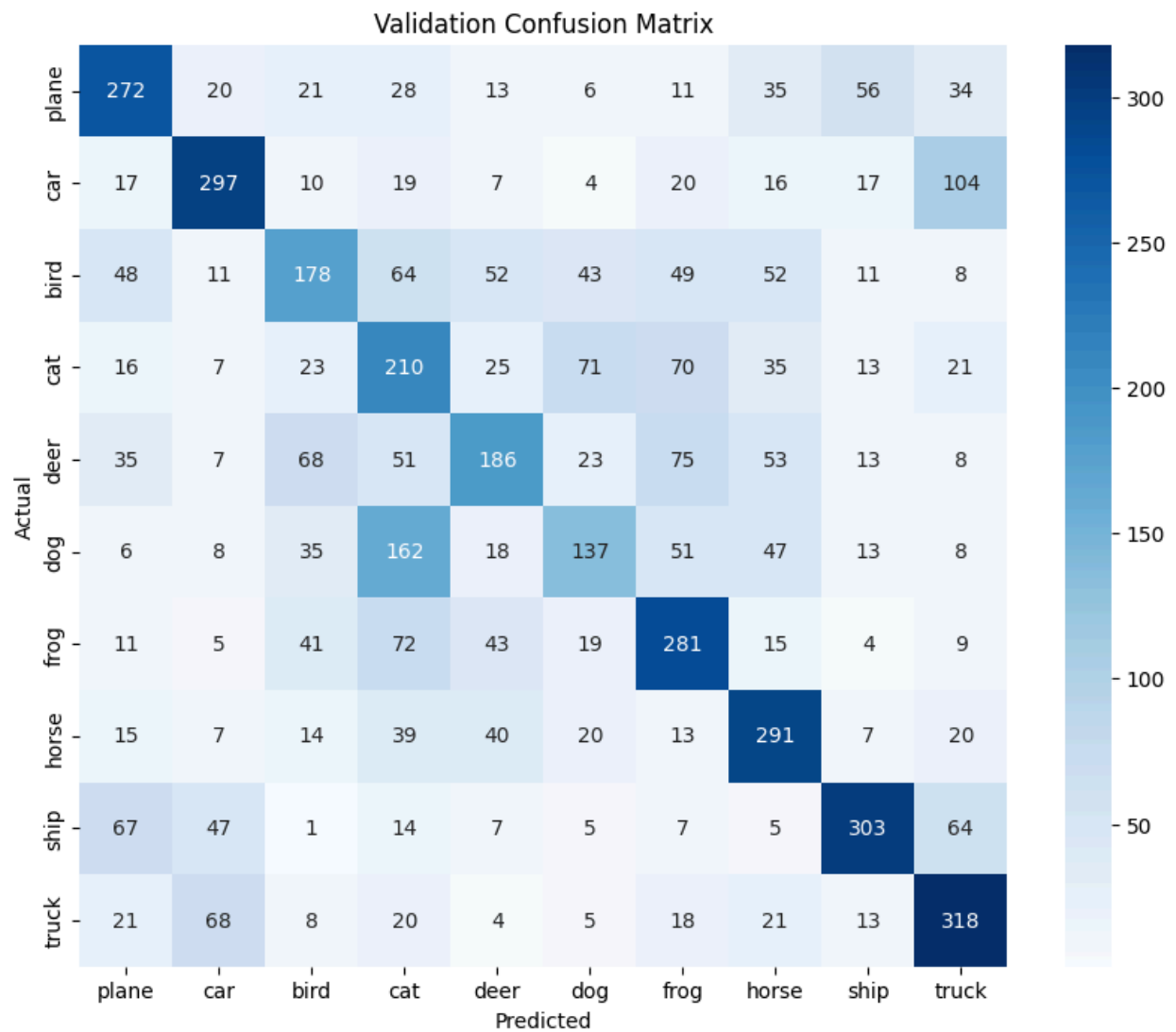# OUTPUTS

## PART A: IN LAB

2)

```
Epoch 1/5, Train Loss: 1.7614, Train Acc: 37.58%, Val Loss: 1.5861, Val Acc: 44.98%
Epoch 2/5, Train Loss: 1.5879, Train Acc: 43.74%, Val Loss: 1.5066, Val Acc: 46.68%
Epoch 3/5, Train Loss: 1.5180, Train Acc: 46.44%, Val Loss: 1.4941, Val Acc: 47.10%
Epoch 4/5, Train Loss: 1.4612, Train Acc: 48.42%, Val Loss: 1.4345, Val Acc: 49.42%
Epoch 5/5, Train Loss: 1.4175, Train Acc: 50.04%, Val Loss: 1.4309, Val Acc: 49.46%
```
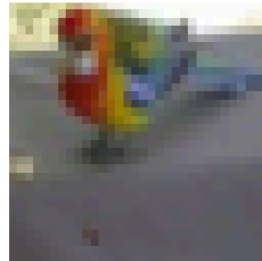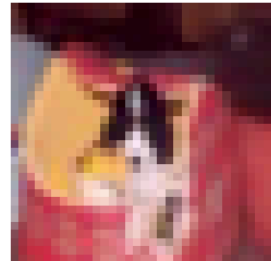
3)

4)



Validation Confusion Matrix

5)
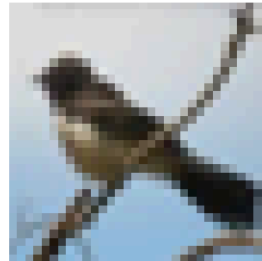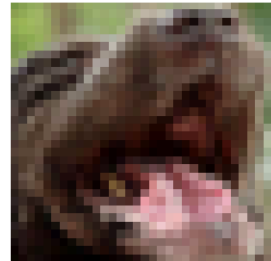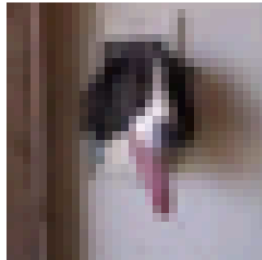
# PART B: TAKE HOME

1)

```
Epoch 1/8, Train Loss: 1.7471, Train Acc: 38.17%, Val Loss: 1.6019, Val Acc: 43.40%
Epoch 2/8, Train Loss: 1.5743, Train Acc: 44.29%, Val Loss: 1.5052, Val Acc: 47.34%
Epoch 3/8, Train Loss: 1.4998, Train Acc: 47.09%, Val Loss: 1.4588, Val Acc: 48.10%
Epoch 4/8, Train Loss: 1.4442, Train Acc: 48.86%, Val Loss: 1.4499, Val Acc: 49.66%
Epoch 5/8, Train Loss: 1.4000, Train Acc: 50.31%, Val Loss: 1.4436, Val Acc: 49.80%
Epoch 6/8, Train Loss: 1.3610, Train Acc: 51.48%, Val Loss: 1.3955, Val Acc: 52.08%
Epoch 7/8, Train Loss: 1.3196, Train Acc: 53.18%, Val Loss: 1.3967, Val Acc: 51.86%
Epoch 8/8, Train Loss: 1.2827, Train Acc: 54.14%, Val Loss: 1.3976, Val Acc: 51.14%
```

2)